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APPLICATION N	0.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/716,959		11/19/2003	Bogdanovich Alexander	7100-038	6455	
4678	7590	08/08/2006		EXAM	EXAMINER	
		SON PLLC	BEFUMO, JE	BEFUMO, JENNA LEIGH		
300 N. GF P. O. BOX		FREET, SUITE 1600	ART UNIT	PAPER NUMBER		
GREENS	GREENSBORO, NC 27402					
			DATE MAILED: 08/08/2006			

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application No.	Applicant(s)				
		10/716,959	ALEXANDER ET AL.				
	Office Action Summary	Examiner	Art Unit				
		Jenna-Leigh Befumo	1771				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply							
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.  - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.  - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.  - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).							
Status							
2a)⊠	Responsive to communication(s) filed on 30 M. This action is FINAL. 2b) This Since this application is in condition for allower closed in accordance with the practice under E	action is non-final.  nce except for formal matters, pro					
Disposition of Claims							
<ul> <li>4) ☐ Claim(s) 1-40 is/are pending in the application.</li> <li>4a) Of the above claim(s) 8-10,13-24,26-29 and 31-40 is/are withdrawn from consideration.</li> <li>5) ☐ Claim(s) is/are allowed.</li> <li>6) ☐ Claim(s) 1-7,11,12,25 and 30 is/are rejected.</li> <li>7) ☐ Claim(s) is/are objected to.</li> <li>8) ☐ Claim(s) are subject to restriction and/or election requirement.</li> </ul>							
Applicati	on Papers						
<ul> <li>9) The specification is objected to by the Examiner.</li> <li>10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.  Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).</li> <li>11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.</li> </ul>							
Priority under 35 U.S.C. § 119							
<ul> <li>12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).</li> <li>a) All b) Some * c) None of:</li> <li>1. Certified copies of the priority documents have been received.</li> <li>2. Certified copies of the priority documents have been received in Application No.</li> <li>3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).</li> <li>* See the attached detailed Office action for a list of the certified copies not received.</li> </ul>							
2) Notice (3) Inform	e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (PTO-948) nation Disclosure Statement(s) (PTO-1449 or PTO/SB/08) No(s)/Mail Date	4) Interview Summary ( Paper No(s)/Mail Da 5) Notice of Informal Pa 6) Other:					

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### **DETAILED ACTION**

1. The response submitted on May 30, 2006 has been entered. Claims 1-40 are pending. Claims 8-10, 13-24, 26-29, and 31-40 are withdrawn from consideration as being drawn to a nonelected invention.

## Claim Rejections - 35 USC § 102

- 2. The text of those sections of Title 35, U.S. Code not included in this action can be found in a prior Office action.
- 3. Claims 1, 7, 11, 12, 25, and 30 are rejected under 35 U.S.C. 102(b) as being anticipated by Jayaraman et al. (6,381,482) for the reasons of record.
- 4. Claims 1, 7, 11, 12, 25, and 30 are rejected under 35 U.S.C. 102(b) as being anticipated by Wheeler et al. (5,029,977) for the reasons of record.

### Claim Rejections - 35 USC § 102/103

- 5. The text of those sections of Title 35, U.S. Code not included in this action can be found in a prior Office action.
- 6. Claims 2 6 are rejected under 35 U.S.C. 102(b) as anticipated by or, in the alternative, under 35 U.S.C. 103(a) as obvious over Jayaraman et al. for the reason of record.
- 7. Claims 2-6 are rejected under 35 U.S.C. 102(b) as anticipated by or, in the alternative, under 35 U.S.C. 103(a) as obvious over Wheeler et al. for the reasons of record.

## Response to Arguments

8. Applicant's arguments filed May 30, 2006 have been fully considered but they are not persuasive. The applicant argues that Jayaraman et al. fails to teach a three-dimensional fabric formed by intersecting yarn systems that form an orthogonal structure (response, page 8).

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Further, the applicant states that the prior art is formed by interlacing yarns and not intersecting yarns that have no interlacing (response, page 8). However, the term "intersecting" is interpreted based on its broadest reasonable interpretation. The claim itself does not further define or limit the term "intersecting". Thus, the interlacing yarns taught by Jayaraman et al. read on the presently claimed limitations since the fabric structure comprises yarns that intersect where they are interlaced together. Thus, Jayaraman et al. discloses all the claimed structural features.

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Further, in response to applicant's argument that the references fail to show certain features of applicant's invention, it is noted that the features upon which applicant relies (i.e., non-interlaced yarns, an orthogonal yarn system, lack of bending in the yarn systems) are not recited in the rejected claims. Although the claims are interpreted in light of the specification, limitations from the specification are not read into the claims. See *In re Van Geuns*, 988 F.2d 1181, 26 USPQ2d 1057 (Fed. Cir. 1993). Thus, the rejection is maintained.

- 9. The applicant also argues that Wheeler et al. does not teach the claimed intersecting yarn systems because the yarns in Wheeler et al. are interlaced (response, page 9). However, as set forth above, interlacing is not excluded by the term "intersecting". The yarns in Wheeler et al. are both interlaced and intersecting. Additionally, the claim does not exclude bending the yarn systems to form the fabric. Therefore, the rejection is maintained.
- 10. Finally, the applicant argues that the prior art fails to teach a three-dimensional orthogonal structure (response, pages 13 14). However, the claim is not limiting the three-dimensional structure. Further, the claims do not require that the fabric has an orthogonal yarn system, as argued. Thus, the fabrics taught by the prior art have sufficient three-dimensional structure to meet the claim limitations. Thus, the rejections are maintained.

#### Conclusion

11. THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Jenna-Leigh Befumo whose telephone number is (571) 272-1472. The examiner can normally be reached on Monday - Friday (8:00 - 5:30).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Terrel Morris can be reached on (571) 272-1478. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <a href="http://pair-direct.uspto.gov">http://pair-direct.uspto.gov</a>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Jenna-Leigh Befumo

August 3, 2006